## Commonwealth of Virginia

## Department of Environmental Quality

# Solid Waste Managed in Virginia



### Solid Waste Managed in Virginia - 1999

#### I. INTRODUCTION

This report is prepared in accordance with Virginia Code § 10.1-1413.1, which requires the Department of Environmental Quality (Department) to prepare a report by June 30 of each year describing the amount of solid waste disposed of in the Commonwealth during the preceding calendar year. All permitted facilities that treat, store, or dispose of solid waste are required to provide the Department with information in their possession reasonably necessary for the Department to prepare this report. The facilities reported on each of the following methods of waste management:

- recycling;
- composting;
- landfilling;
- incineration;
- storing on site;
- sending off-site for further management; and
- other.

The latter three methods were added to those required under the statute to account for all available solid waste management methods. The facilities were also asked to furnish information on the amounts of solid waste managed from each of the following categories:

- municipal solid waste (MSW);
- construction and demolition debris (CDD);
- incineration ash;
- sludge other than is land applied in accordance with Virginia Code § 32.1-164.5;
- tires;
- industrial waste;
- regulated medical waste (RMW);
- vegetative and yard waste (VW/YW);
- white goods (e.g. refrigerators, washing machines);
- friable asbestos;
- petroleum-contaminated soil (PCS); and
- other categories not covered above.

As above, for completeness, the latter seven categories were added to the first five required by the statute.

#### II. REPORTING PROCEDURES

For each category of solid waste managed, the solid waste facilities in Virginia were asked to estimate the amount of waste that was generated and the jurisdictions where such waste originated, if known. A copy of the reporting form is shown as Attachment 1.

This report does not wholly represent Virginia's waste management activities because the statute exempts all captive waste management facilities<sup>1</sup> from the reporting requirements. As a result, the reported amounts of the industrial wastes and sludge represent only that portion that is managed in off-site facilities. Similarly, a great deal of recycling takes place on-site or at facilities that do not require a permit, and therefore is not included in this report. The report does not reflect tires managed under the Waste Tire Trust Fund at facilities other than permitted facilities.

#### III. RECEIPT OF ASSESSMENT REPORTS

Reports from permitted facilities were accepted until May 12, 2000. Each facility was required to submit a separate report for each jurisdiction from which it received waste. The 185 facilities that reported on their activities during 1999 submitted a total of 323 separate reports representing 25 states, the District of Columbia, and Puerto Rico. A list of these facilities is provided as Attachment 2.

#### IV. DISCUSSION OF REPORTED RESULTS

Table 1 summarizes the quantity of waste received by those facilities submitting reports, by category of waste and disposal method. The column entitled "Sent off-site" indicates quantities of waste that have been accepted at facilities and sent off-site to be managed by other facilities. Therefore, this quantity of waste should be subtracted from the total amount received to arrive at an estimate of the quantity of waste that is treated or disposed of in the state. The percentage of each treatment type with regard to all waste received is shown in Figure 1. The composition of the solid waste stream is shown in Figure 2.

The quantities of solid waste that are landfilled (80.18% of all waste handled) or incinerated in energy recovery facilities (14.81%) form the majority of the wastes managed in the state. The amounts and percentages for the other methods are less accurate as explained above. The amount of the industrial wastes and sludge will be incomplete because of the statutory reporting exemption.

Table 2 shows the quantities of solid wastes imported from outside Virginia. Four jurisdictions account for 89.70% of all waste sent from out-of-state sources to Virginia: Maryland (30.60%); New York (26.66%); Washington, D.C. (22.57%); and North Carolina (9.87%). Figure 3 compares the amount of waste received at facilities from out-of-state sources to the amount received from Virginia. Figure 4 illustrates the total quantity of waste received from individual jurisdictions. A comparison between waste received in 1998 and 1999 is shown in Figure 5.

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<sup>&</sup>lt;sup>1</sup> Captive waste management facilities are non-hazardous industrial solid waste management facilities owned or operated by the generator of the waste managed at the facility, and that accept only waste generated by the facility owner or operator.

In future years, it is expected that these jurisdictions will continue to export some of their wastes to Virginia. Because the Department regulates only solid waste storage, treatment, and disposal facilities and does not regulate its generation, no data can be gathered on the amounts of non-hazardous wastes exported from the Commonwealth and managed in other states.

The statute provides that, at the option of the facility owner, the data collected may include an accounting of the facility's economic benefits to the locality where the facility is located including the value of disposal and recycling facilities provided to the locality at no cost or reduced cost, direct employment associated with the facility, and other economic benefits resulting from the facility during the preceding calendar year. Waste Management provided comments about the economic benefits that it provides. A summary is found in Attachment 3.

## **Attachment 1** Solid Waste Information and Assessment Program - Reporting Table

Facility Name:				Permit No. :						
Date Submitted to DEQ: Annual Reporting Period:										
Originating Jurisdiction (i.e., state): Is Jurisdiction Outside Virginia ? YES NO										
	Units Waste Management- Report Amount by Weight or Volume									
Waste Type	(check one) (REPORTING UNITS MUST BE CONSISTENT FOR ALL FIELDS OF A PARTICULAR WASTE TYPE, USE TO CUBIC YARDS. NOT BOTH)									TYPE, USE TONS OR
	Tons	cu.vds	Received	Recycled	Composted	Landfilled	Incinerated	Sent off site	Stored on site	Other:
Municipal Solid Waste										
Construction/ Demolition/Debris										
Industrial Waste										
Regulated Medical Waste										
Vegetative/Yard Waste										
Incineration Ash										
Sludge*										
Tires										
White Goods										
Friable Asbestos										
Petroleum Contaminated Soil										

NOTE: Report each different jurisdiction on a separate page

Other Waste(specify):

<sup>\*</sup>Sludge other than that applied to the land in accordance with § 32.1-164.

## **Attachment 2 - Listing of Facilities Reporting in 1999**<sup>2</sup>

Facility Name	Permit Number	DEQ Region
623 C/D/D LANDFILL	506	PRO
623LANDFILL	PBR009	PRO
ACCOMACK CO LF NORTHERN SITE #2	461	TRO
ACCOMACK CO LF-BOBTOWN SOUTH	091	TRO
ACCOMACK NORTHERN LF BAILER/TRANSFER STATION	PBR112	TRO
ACCOMACK STHRN LNDFIL SOLID WASTE RCV & BALING FAC	PBR090	TRO
ALEX/ARLINGTON RES REC FAC	435	NRO
AMERICAN WASTE INDUSTRIES, INC. (AWI)	871-i	TRO
AMERICAN WASTE INDUSTRIES, INC. (AWI)	PBR114	TRO
AMHERST COUNTY SLF	563	WCRO
APPOMATTOX CO SLF	086	WCRO
AREA CONTAINER SERVICES, INC.	PBR098	TRO
ASHCAKE C\D\D LF	574	PRO
ATLANTIC WASTE DISPOSAL SLF	562	PRO
AUGUSTA CO SVC AUTH	021	VRO
AUGUSTA COUNTY / STAUNTON LANDFILL NO. 2	585	VRO
BATH COUNTY TRANSFER STATION	PBR045	VRO
BEDFORD CO. TRANSFER STATION	PBR031	WCRO
BEDFORD COUNTY SLF	560	WCRO
BFI FLUVANNA COUNTY TRANSCYCLERY	PBR099	VRO
BFI FREDERICKSBURG RECYCLERY	PBR107	NRO
BFI TRANSCYCLERY	PBR077	TRO
BFI- CULPEPER TRANSFER STATION	PBR140	NRO
BIG BETHEL LANDFILL	580	TRO
BLUE RIDGE DISPOSAL INC.	PBR104	WCRO
BOISSEVAIN TRANSFER STATION	PBR004	SWRO
BOTETOURT COUNTY LANDFILL	582	WCRO
BRISTOL QUARRY BALEFILL	500/588	SWRO
BRUNSWICK WASTE MGMT FACILITY	583	PRO
CAMP PEARY ARMED FORCES ETA	PBR097	TRO
CAMPBELL CO LF	285	WCRO
CAROLINE CO SLF	182	NRO
CARROLL-GRAYSON-GALAX REGIONAL LANDFILL	508	SWRO
CEDAR BLUFF TRANSFER STATION	PBR002	SWRO
CHESTERFIELD - N and S WASTE TIRE	PBR082/PBR083	PRO

<sup>&</sup>lt;sup>2</sup> Facility reports which were received after May 12, 2000 are not included in this listing. June, 2000

Facility Name	Permit Number	<b>DEQ Region</b>
CITY OF BEDFORD (HYLTON SITE)	569	WCRO
CITY OF DANVILLE TS	PBR015	WCRO
CITY OF DANVILLE YWCF	PBR010	WCRO
CITY OF NEWPORT NEWS YW COMPOSTING	PBR096	TRO
CITY OF SALEM TS	PBR028	WCRO
COGENTRIX	PBR150	PRO
CON-SERV INDUSTRIES	PBR102	NRO
CORRAL FARM LF	575	NRO
COUNTRY SOUTH	581	WCRO
COUNTY OF FREDERICK CDD LANDFILL	591	VRO
COX'S CHARLES CITY RD LF,INC.	235	PRO
COX'S DARBYTOWN ROAD LF,INC.	525	PRO
CRANEY ISLAND LF	041	TRO
CRANEY ISLAND MAT. REC. FAC.	PBR061	TRO
DINWIDDIE COUNTY TRANSFER STATION	PBR137	PRO
DUQUESENE ENERGY, INC. HOPEWELL, VA	PBR131	PRO
FAUQUIER COUNTY LF	149	NRO
FCR MRF	PBR088	NRO
FIRST PIEDMONT	065	WCRO
FLOYD CO. SW TRANSFER STATION	PBR050	WCRO
FLUVANNA CO SLF	429	VRO
FRANKLIN CO LF	072	WCRO
FREDERICK COUNTY SLF	529	VRO
GOOCHLAND CO. TS	PBR023	PRO
GREENSVILLE CO LF	405	PRO
HALIFAX CO SLF	092	PRO
HANOVER CO LF - 301	314	PRO
HARRISONBURG RES REC FAC	390	VRO
HIGGERSON-BUCHANAN	493	TRO
HILLTOP DEBRIS LF	326	NRO
HOLLAND ENTERPRISES	280	TRO
I-66 TRANS STN	387	NRO
I-95 ENERGY/RES REC FAC	510	NRO
I-95 LF	103	NRO
INCENDERE, INC. REGULATED MEDICAL WASTE TRANSFER S	PBR113	PRO
INDEPENDENT HILL LF	029	NRO
INDIAN TRAIL DISPOSAL FACILITY	451	TRO

Facility Name	Permit Number	DEQ Region
INDUSTRIAL RESOURCE TECHNOLOGIES	PBR115	PRO
IVY LANDFILL TRANSFER STATION	PBR132	VRO
IVY SANITARY LANDFILL	125	VRO
JOINT PUBLIC SERVICE AUTH.	PBR048	TRO
KING AND QUEEN SANITARY LANDFILL	554	PRO
KING GEORGE COUNTY LANDFILL AND RECYCLING FACILITY	586	NRO
LCM TRANSFER STATION	PBR136	WCRO
LIVINGSTON LANDFILL NO. 2	547	NRO
LORTON CDD LF-FURNACE ROAD	331	NRO
LOUDOUN CO SLF	001	NRO
LOUDOUN COMPOSTING YARD WASTE COMPOSTING FACILITY	PBR141	NRO
LOUISA CO SLF	194	VRO
LUNENBURG CO SLF	227	PRO
LYNCHBURG SANITARY LANDFILL	558	WCRO
MADISON CO SLF	442	NRO
MADISON COUNTY TRANSFER STATION	PBR154	NRO
MANASSAS TRANSFER STATION	PBR091	NRO
MAPLEWOOD RECYLING & WASTE DISPOSAL FACILITY	540	PRO
MARTINSVILLE LF	049	WCRO
MECKLENBURG CO LF	014	PRO
MECKLENBURG COUNTY YWCF	PBR011	PRO
METALPRO, INC. MATERIAL RECOVERY FACILITY	PBR152	NRO
MID-COUNTY LF-MONTGOMERY CO	397	WCRO
MIDDLE PENIN. TRANSFER STATION	PBR037	PRO
MIDDLE PENINISULA YARD WASTE COMPOSTING	PBR125	PRO
MIDDLE PENINSULA LANDFILL AND RECYCLING CENTER	572	PRO
MONTGOMERY REGIONAL SOLID WASTE AUTHORITY TRANSFER	PBR149	WCRO
NASA-LANGLEY RESEARCH RES REC	297	TRO
NELSON CO. TRANSFER STATION	PBR051	VRO
NEWPORT NEWS, YARD WASTE COMPOSTING FACILITY NO. 2	PBR110	TRO
NORFOLK NAVAL BASE, WASTE TIRE PROCESSING FACILITY	PBR109	TRO
NORFOLK NAVY SHIPYARD BUILDING 1460	PBR135	TRO
NORTHAMPTON CO LF-OYSTER SITE	507	TRO
NOTTOWAY CO SLF	304	PRO
NRRA SOILD WASTE FACILITY	548	WCRO
OLD DOMINION SLF & RESOURCE MANAGEMENT FACILITY	553	PRO
ORANGE CO SLF	090	NRO
PAGE COUNTY LANDFILL	579	VRO

Facility Name	Permit Number	<b>DEQ Region</b>
PATRICK CO. SOLID WASTE TS	PBR032	WCRO
PETERS MOUNTAIN SANITARY LANDFILL #2	178	WCRO
PETERSBURG CITY LF	228	PRO
PITTSYLVANIA COUNTY SANITARY LANDFILL	571	WCRO
POTOMAC LANDFILL	441	NRO
PRINCE EDWARD COUNTY SANITARY LANDFILL	584	PRO
PRINCE WILLIAM CO. YWCF BALLS FORD RD	PBR030	NRO
PRINCE WILLIAM CO. YWCF LF SITE	PBR012	NRO
PURGO INC (FORM. WEYERHAUSER)	PBR046	PRO
QUALLA ROAD DEMO LANDFILL	516	PRO
RAINWATER CONCRETE DEBRIS LF	327	NRO
RAPPAHANNOCK CO LF	520	NRO
RAPPAHANOCK REGIONAL SOLID WASTE MANAGEMENT BOARD	589	NRO
RECLAMATION INCORPORATED	PBR062	TRO
RECO INDUSTRIES	592	PRO
RECO INDUSTRIES, INC.	PBR052	PRO
RICHMOND TRANS STN-HOPKINS RD	487	PRO
RICHMOND TRANS STN-SCHOOL ST	489	PRO
ROANOKE TRANSFER STATION	546	WCRO
ROCKBRIDGE CO SLF-BUENA VISTA	075	VRO
ROCKINGHAM CO SLF	062	VRO
RSWA COMPOST FACILITY	593	VRO
SAFETY-KLEEN SYSTEMS, INC VINTON	PBR080	WCRO
SAFETY-KLEEN SYSTEMS, INC MANASSAS	PBR086	NRO
SAFETY-KLEEN SYSTEMS, INC CHESAPEAKE	PBR078	TRO
SAFETY-KLEEN SYSTEMS, INC CHESTER	PBR079	PRO
SCOTT CO LF	023	SWRO
SHENANDOAH CO SLF	469	VRO
SHOOSMITH DEBRIS LF	377	PRO
SHOOSMITH SANITARY LANDFILL	587	PRO
SIMONS HAULING CO DARBYTOWN	PBR027	PRO
SIMONS HAULING DEBRIS LF	524	PRO
SMITH GAP REGIONAL SLF	555	WCRO
SMYTH CO. TRANSFER STATION	PBR041	SWRO
SOILEX CORPORATION- SUFFOLK	PBR155	TRO
SOILEX PCS REMEDIATION FAC.	PBR075	TRO
SOUTH BOSTON SLF	031	PRO
SPRINGFIELD ROAD LANDFILL	545	PRO

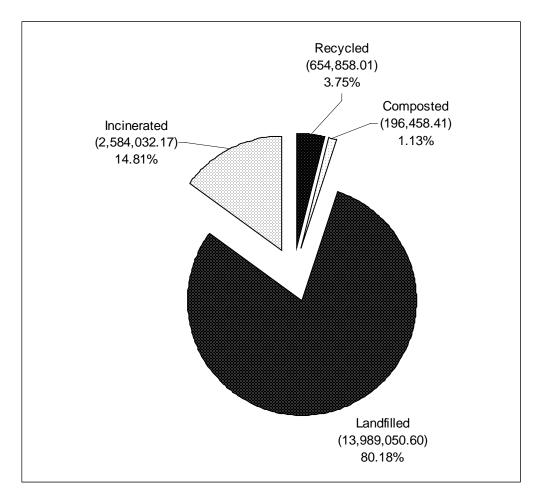
Facility Name	Permit Number	<b>DEQ Region</b>
SPSA REFUSE DERIVED FUEL PLANT	455	TRO
SPSA REGIONAL LF	417	TRO
SPSA-BALLENTINE TRANSFER STN	421	TRO
SPSA-BOYKINS TRANS STN	484	TRO
SPSA-CHESAPEAKE TRANS STN	425	TRO
SPSA-FRANKLIN TRANS STN	438	TRO
SPSA-ISLE OF WIGHT TRNS STN	494	TRO
SPSA-IVOR TRANSFER STATION	539	TRO
SPSA-LANDSTOWN TRANS STATION	537	TRO
SPSA-NORFOLK NAVAL SHIPYARD	482	TRO
SPSA-VA BEACH TRANS STN #1	396	TRO
STAFFORD CO SLF / R-Board LF	074	NRO
TAYLOR ROAD LANDFILL	270	PRO
TAZEWELL COUNTY SLF	564	SWRO
THRASHER DEBRIS LF	305	TRO
TIRE RECYCLERS INC.	PBR142	PRO
USA WASTE CHARLES CITY	531	PRO
USA WASTE OF VIRGINIA - LEESBURG MRF	PBR006	NRO
USA WASTE OF VIRGINIA- FAIRFAX MRF	PBR111	NRO
USA WASTE OF VIRGINIA- STERLING MRF	PBR093	NRO
VA BEACH LF #2-MT TRSHMR II	398	TRO
VA RECYCLING CORP	PBR039	PRO
VIRGINIA HEALTH CARE WASTE TRANSPORTATION, INC.	PBR143	WCRO
VIRGINIA MATERIALS AND SUPPLIES, INC.	PBR117	TRO
VPPSA-ESSEX CO. TS	PBR016	PRO
VPPSA-JAMES CITY CO. TS	PBR021	TRO
VPPSA-KING WILLIAM CO. TS	PBR017	PRO
VPPSA-MATHEWS CO. TS	PBR018	PRO
VPPSA-MIDDLESEX CO. TS	PBR019	PRO
VPPSA-YORK CO. TS	PBR022	TRO
VPPSA-YORK CO. YWCF	PBR013	TRO
WALTRIP LF	322	TRO
WARREN CO. TRANSFER STATION	PBR033	VRO
WASHINGTON COUNTY TS	PBR003	SWRO
WEAVER IND WASTE LF	471	PRO
WESTMORELAND CO. TS	PBR069	PRO
WOLFTRAP OPERATIONS, INC.	436	TRO
YARD WASTE COMPOSTING FACILITY	PBR024	TRO

Table 1. Solid Waste Managed in Virginia in 1999 (in Tons)

Waste Type	Received	Recycled <sup>3</sup>	Composted	Landfilled	Incinerated	Stored on Site	Sent off Site	Other
Municipal Solid Waste	13,442,907.88	73,239.08	0.00	8,633,875.51	2,411,608.96	615.20	2,329,813.39	37.94
CDD Waste	3,844,826.04	52,309.39	0.00	3,092,512.97	4,135.36	9,655.77	679,126.36	0.00
Industrial Waste	911,010.27	47,061.17	0.00	745,623.09	158.69	62.11	118,105.22	0.00
Regulated Medical Waste	21,821.04	0.00	0.00	0.00	10,364.58	0.00	11,436.46	0.00
Vegetative/Yard Waste	669,773.13	167,589.04	196,458.41	158,343.87	35,966.38	5,367.60	106,156.47	0.00
Incineration Ash	703,804.02	0.00	0.00	659,194.70	0.00	1,622.72	6,986.58	0.00
Sludge	423,980.92	4,432.07	0.00	350,857.97	62,635.57	0.00	1,555.31	0.00
Tires	83,857.86	29,344.04	0.00	16,263.48	4,617.55	4,371.01	33,497.50	0.00
White Goods	35,050.11	13,682.83	0.00	303.26	0.00	0.00	21,102.08	0.00
Friable Asbestos	38,400.87	0.00	0.00	38,325.87	0.00	0.00	75.00	0.00
Petroleum Contaminated Soil	292,032.26	154,107.02	0.00	118,085.37	0.00	0.00	19,839.20	0.00
Other Wastes	431,078.81	113,093.37	0.00	175,664.51	54,545.08	878.56	87,048.30	0.00
Totals:	20,898,543.21	654,858.01	196,458.41	13,989,050.60	2,584,032.17	22,572.97	3,414,741.87	37.94

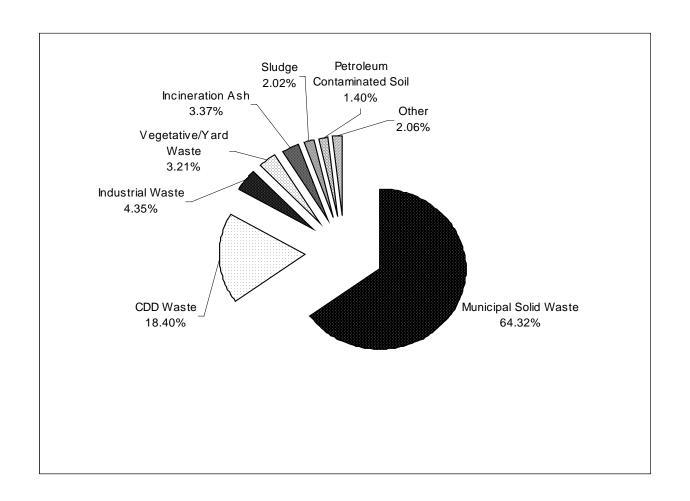
<sup>&</sup>lt;sup>3</sup> The bulk of recycling takes place at facilities that do not require a permit from the Department and were not required to submit data for this report. Therefore, the amounts shown in this column represent a substantial underestimate of the true recycling rate in the Commonwealth. According to the most recent data submitted by the localities (calendar year 1995), the average state-wide recycling rate was approximately 35%.

Figure 1. Solid Waste Management in Virginia's Permitted Facilities – 1999



Units of weight are in tons. Material stored on site is not represented in this table as it comprises only 0.13% of the total waste stream managed in 1999. Not all recycling facilities are required to report. As a result, more accurate recycling information is reported by localities. According to the most recent data submitted by localities (1995), the average state-wide recycling rate was approximately 35% of solid waste generated in Virginia localities.

Figure 2. Composition of the Solid Waste Stream in 1999



Note: This chart does not include waste streams comprising less than 1% of the total waste stream. This includes Regulated Medical Waste (0.10%), White Goods (0.17%), Friable Asbestos (0.18%), and Tires (0.40%).

Table 2. Wastes Received from Other States – 1999 (tons)

	Municipal Solid Waste	Regulated Medical Waste	Construct./ Demolition Debris	Incineration Ash	Sludge	Tires	Petroleum Contamin- ated Soil	Industrial Waste	Friable Asbestos	Vegetative / Yard Waste	White Goods	Other Waste	Total
Alabama	0	0	0	0	0	0	0	0	0	0	0	141.22	141.22
Arkansas	0	0	0	0	0	0	0	0	0	0	0	356.19	356.19
Connecticut	70.62	0	0	19,043.82	0	0	0	0	0	0	0	335.40	19,449.84
DC	909,045.46	0	90,795.56	0	62,066.28	49.60	10,705.91	3,580.62	200.00	721.48	180.18	1,034.89	1,078,379.98
Delaware	932.46	0	1,620.00	0	0	32.74	0	32.00	0	0	0	0	2,617.20
Florida	0	0	0	0	0	0	0	0	0	0	0	23.21	23.21
Georgia	0	0	0	0	0	0	0	0	0	0	0	2,275.68	2,275.68
Illinois	0	0	0	0	0	0	0	0	0	0	0	787.58	787.58
Indiana	0	0	0	0	0	0	0	0	0	0	0	390.99	390.99
Kentucky	0	0	0	0	0	0	0	0	0	0	0	43.22	43.22
Massachusetts	196,581.46	0	0	0	19.20	0	0	0	0	0	0	235.59	196,836.25
Maryland	1,242,613.52	4,501.49	32,289.50	117,846.32	42,750.43	6,078.34	9,129.20	5,773.79	413.02	0	80.79	754.39	1,462,230.80
Michigan	0	0	0	0	0	0	0	3,452.00	0	0	0	127.88	3579.88
Missouri	0	0	0	0	0	0	0	0	0	0	0	7.11	7.11
N. Carolina	431,368.04	106.27	2,803.01	0	165.85	313.35	27,078.48	6,604.16	915.50	192.41	0	2,071.29	471,618.36
New Jersey	58,631.79	558.02	0	0	78,916.17	0	10,097.89	1,938.08	0	0	0	1,041.98	151,183.93
New York	1,178,679.55	430.05	869.26	0	34,784.11	0	1,132.27	47014.20	0	0	0	10,826.16	1,273,735.59
Ohio	598.34	0	0	0	0	0	0	0	0	0	0	1,309.71	1,908.05
Oklahoma	0	0	0	0	0	0	0	0	0	0	0	107.97	107.97
Pennsylvania	77,473.36	2,131.74	0	0	0	4.53	0	527.51	0	0	0	246.55	80,383.69
Puerto Rico	0	0	0	0	0	0	0	0	0	0	0	23.33	23.33
Rhode Island	0	7.69	0	0	0	0	0	0	0	0	0	0	7.69
S. Carolina	0	0	0	0	0	0	0	22.21	22.50	0	0	888.80	933.51
Tennessee	25,055.32	0	816.49	0	0	7.30	0	0.13	172.14	583.61	5.83	837.10	27,477.92
Texas	0	0	0	0	0	0	0	0	0	0	0	269.46	269.46
Vermont	0	0	0	0	0	0	0	0	0	0	0	0.20	0.20
W. Virginia	1,980.81	6.08	0	0		89.02	66.77	1.13	0	0	0	1,189.49	3,333.30
Total for Other States	4,123,030.73	7,741.34	129,193.82	136,890.14	218,702.04	6,574.88	58,210.52	68,945.83	1,723.16	1,497.50	266.80	25,325.39	4,778,102.15
Total for Virginia	9,319,877.14	14,079.70	3,715,632.22	566,913.88	205,278.88	77,282.98	233,821.74	842,064.44	36,677.71	668,275.67	34,783.31	405,753.42	16,120,441.10
Total Received	13,442,907.87	21,821.04	3,844,826.04	703,804.02	423,980.92	83,857.86	292,032.26	911,010.27	38,400.87	669,773.17	35,050.11	431,078.81	20,898,543.25

Figure 3. Quantity of Solid Wastes Managed in Virginia in 1999

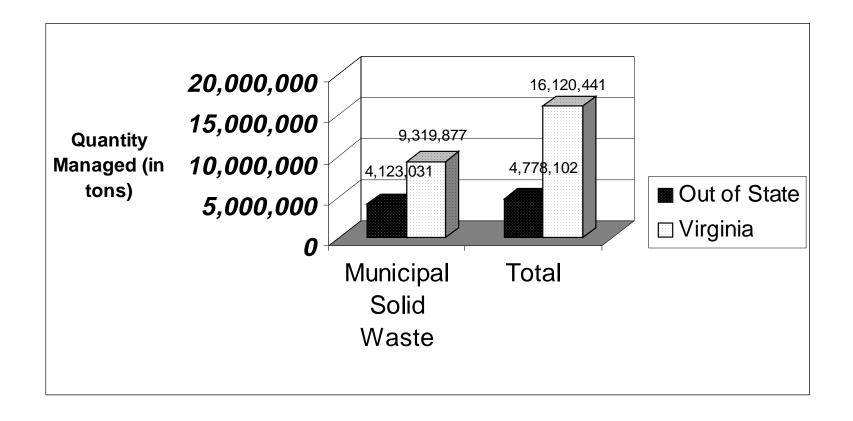
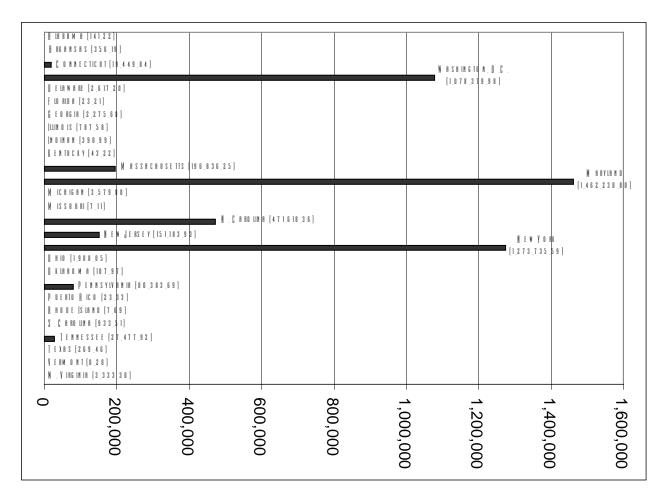
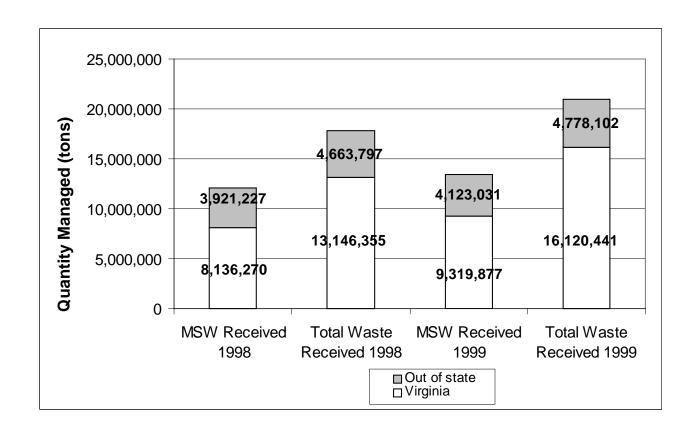


Figure 4. Wastes Received from Out-of-State Sources - 1999



Units are in Tons of Waste Received

Figure 5. 1998 Versus 1999 MSW and Total Waste Received



### **Attachment 3**

### Data Provided by Facilities Regarding Economic Benefit

Section 10.1-1413.1.B. provides that facility owners may provide "an accounting of the facility's economic benefits to the locality where the facility is located, including the value of disposal and recycling facilities provided to the locality at no cost or reduced cost, direct employment associated with the facility, and other economic benefits resulting from the facility during the preceding calendar year." One company, Waste Management, submitted this information for 1999.

#### **Economic Benefit Data - 1999**

#### **Waste Management**

The following information has been provided by Waste Management:

Waste Management operates eight solid waste facilities in Virginia, and has invested over \$450 million in their building and upgrading. The facilities location and name are as follows: Sussex (Atlantic Waste Disposal), Charles City (Charles City Landfill), Gloucester (Middle Peninsula), Amelia (Amelia Landfill), King George (King George Landfill), Chesterfield (Qualla Road Landfill), Hampton (Bethel Landfill), and Suffolk (Indian Trail Landfill). Waste Management also operates a number of transfer stations and other facilities throughout Virginia.

In 1999, Waste Management provided benefits to the sponsoring communities that included:

- host fee payments in 1999, including business license fees and property taxes, amounting to \$14.4 million:
- donated goods and services to the host communities totaling more than \$5.4 million;
- daily operation of fully-manned convenience centers where county residents may dispose of solid waste including residential waste, yard waste and construction debris;
- free pickup of county sludge at the King George facility;
- sponsorship, every few months, of "Household Harmful Waste Collection Days";
- development of recycling, scholarship, and informational programs in schools;
- charitable contributions over \$95,000;
- 1,000 employees throughout Virginia with an annual payroll of over \$38 million.